

In the Specification:

Please insert the following at Page 8, line 2

–Still more preferably, the filter 14 is a panel which can be placed over the window or removed by a user as required. Thus for example, the filter 14 could be hinged with a hinge 16, to the wall of the furnace to allow quick and easy adjustment thereof. –

Please see p.4, lines 32 through 36 for support.

Please delete the following paragraph that was added in the amendment of August 15, 2006, at page 8 above line 35, namely the following paragraphs:

“In a further embodiment shown in Fig. 3, the interference filter 24 could be provided in a camera 22 arranged inside the furnace and adapted to photograph the burner at regular intervals. The information from the camera 22 could then be relayed to an operator who could make any necessary adjustments to the burner from a remote location. This would clearly be advantageous in a large scale refinery or similar scale production plant where considerable numbers of personnel would be required to monitor the operation of each furnace in situ.

Ideally, the camera 22 could be programmed to photograph the burner about once every 10 minutes.

It will be appreciated that the furnace 1 would normally include a plurality of burners and, in the case of a petroleum cracker, ten or more burners and, in the case of a petroleum cracker, ten or more burners could be provided. Thus if necessary, the camera 22 could be programmed to move along a row of burners and to take several pictures of respective burners or groups thereof. Camera 22 is arranged inside the furnace and adapted to photograph the burner flame at regular intervals.

The furnace 1 has means 21 for relaying the information from the camera to an operator and means 25 for making any necessary adjustments to the burner from a remote location. Means 21 and means 25 are controllers commonly known in the art for controlling, monitoring and processing information. Camera 22 is programmed to photograph the burner about once every 10 minutes using means 21. Camera 22 is programmed to move along a row of burners and to photograph groups of one or more burner flames in turn. The means for camera 22 to move along row of burners is a bar in combination with any commonly used motive force used for such purposes. “

And insert –

In a further embodiment shown in Fig. 3, the interference filter 24 could be provided in a camera 22 arranged inside the furnace and adapted to photograph the burner at regular intervals. The information from the camera 22 could then be relayed to an operator who could make any necessary adjustments to the burner from a remote location.

Ideally, the camera 22 could be programmed to photograph the burner about once every 10 minutes.

It will be appreciated that the furnace 1 would include a plurality of burners. Thus if necessary, the camera 22 could be programmed to move along a row of burners. Camera 22 is arranged inside the furnace and adapted to photograph the burner flame at regular intervals.

The furnace 1 has means 21 for relaying the information from the camera to an operator and means 25 for making any necessary adjustments to the burner from a remote location. Means 21 and means 25 are for monitoring and processing information. Camera 22 is programmed to photograph the burner about once every 10 minutes using means 21. Camera 22 is programmed to

move along a row of burners and to photograph groups of one or more burner flames in turn. —

Support for these amendments can be found in the Specification at page 5, lines 9 through 28 and in claim 10 through 12 and 20.

In the specification at page 8, line 3, insert the following paragraph,

-- The interference filter 14 is provided as a panel attached to the window 15 of furnace. Panel 14 is hinged to furnace by hinge 16.--

Support for this amendment is found in the Specification at page 4, lines 32 through 35.